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PATENT & TRADEMARK OFFICE

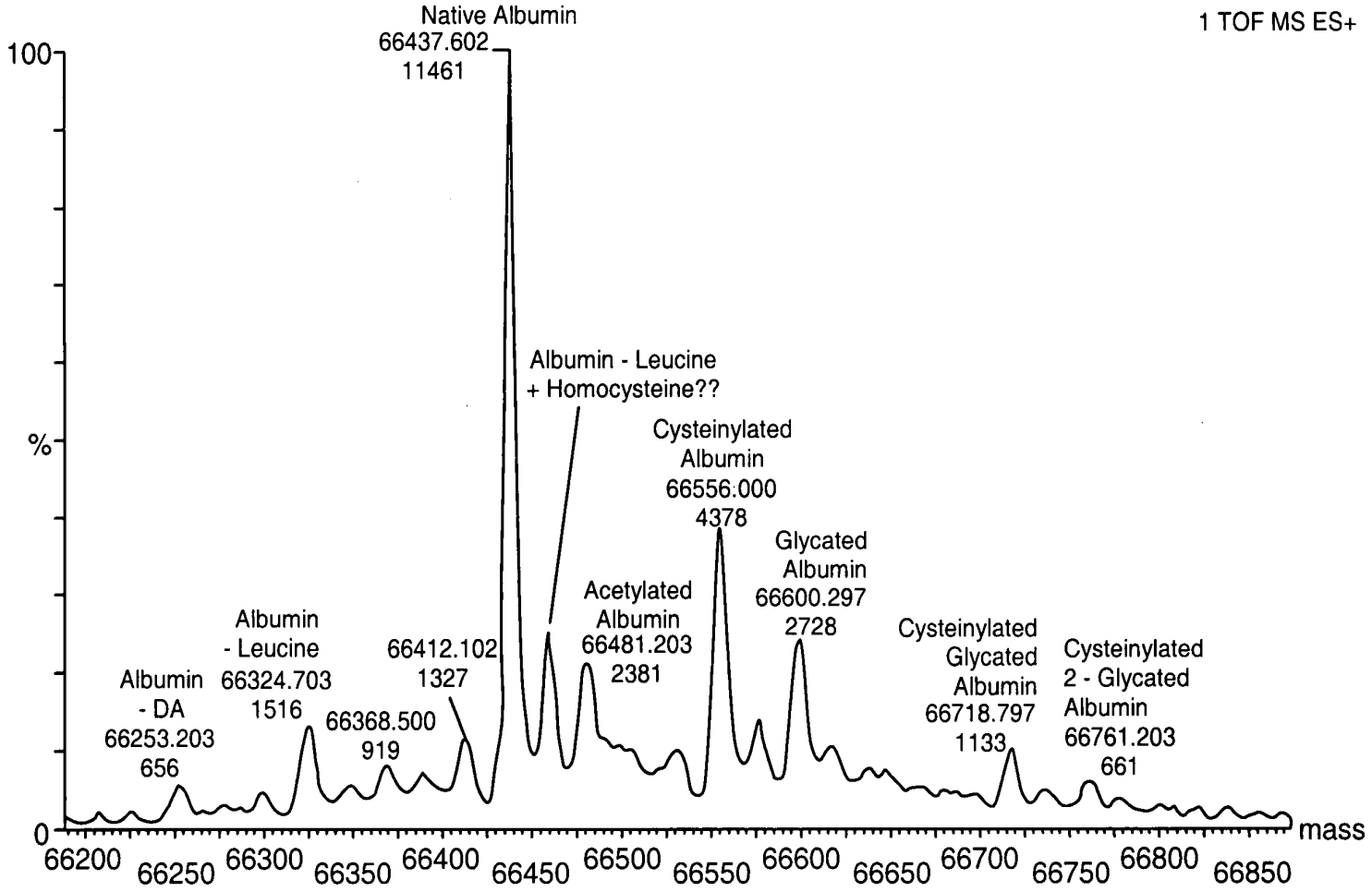


Figure 1

Figure 2A

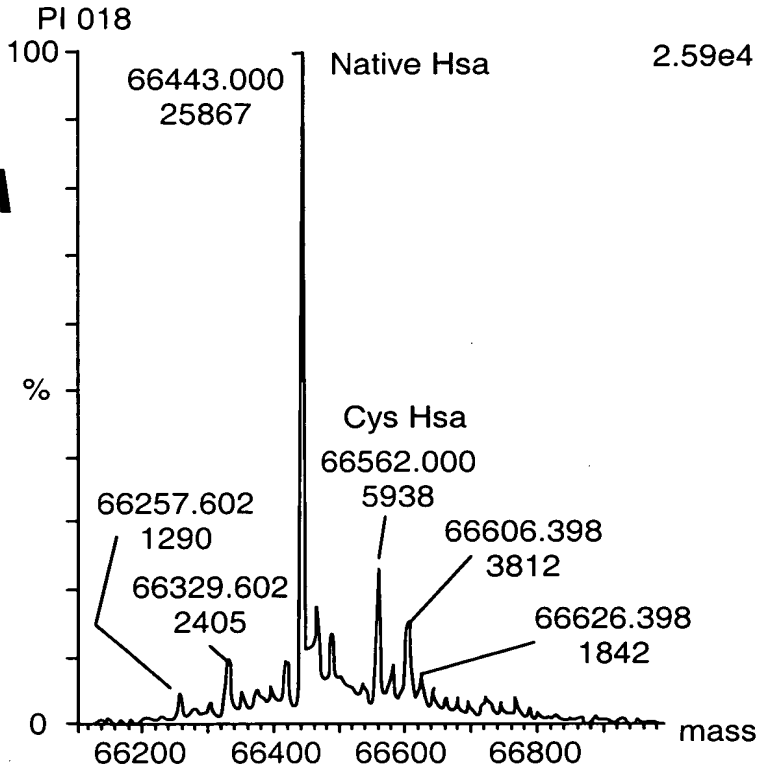
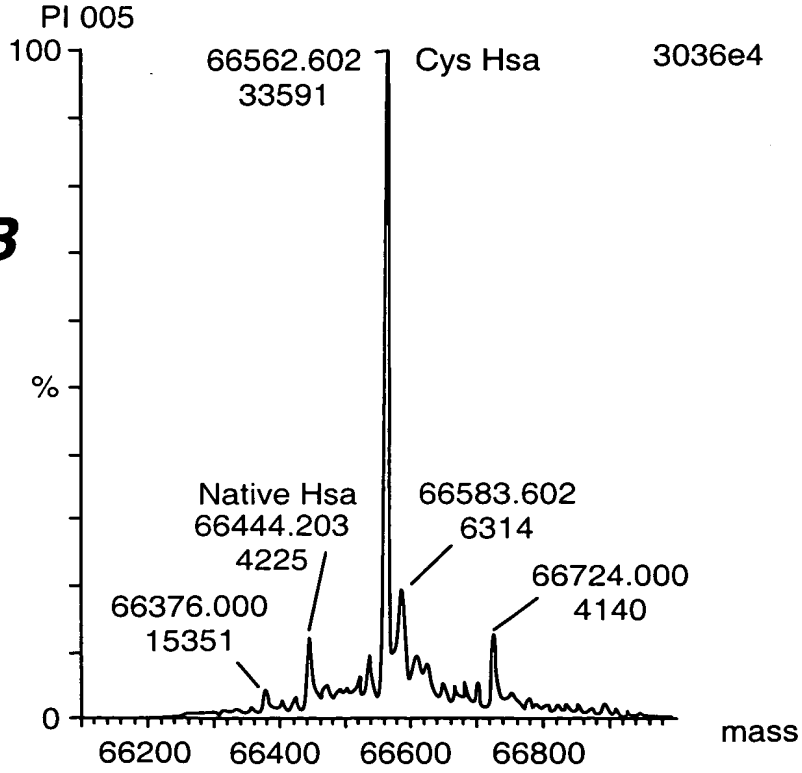


Figure 2B



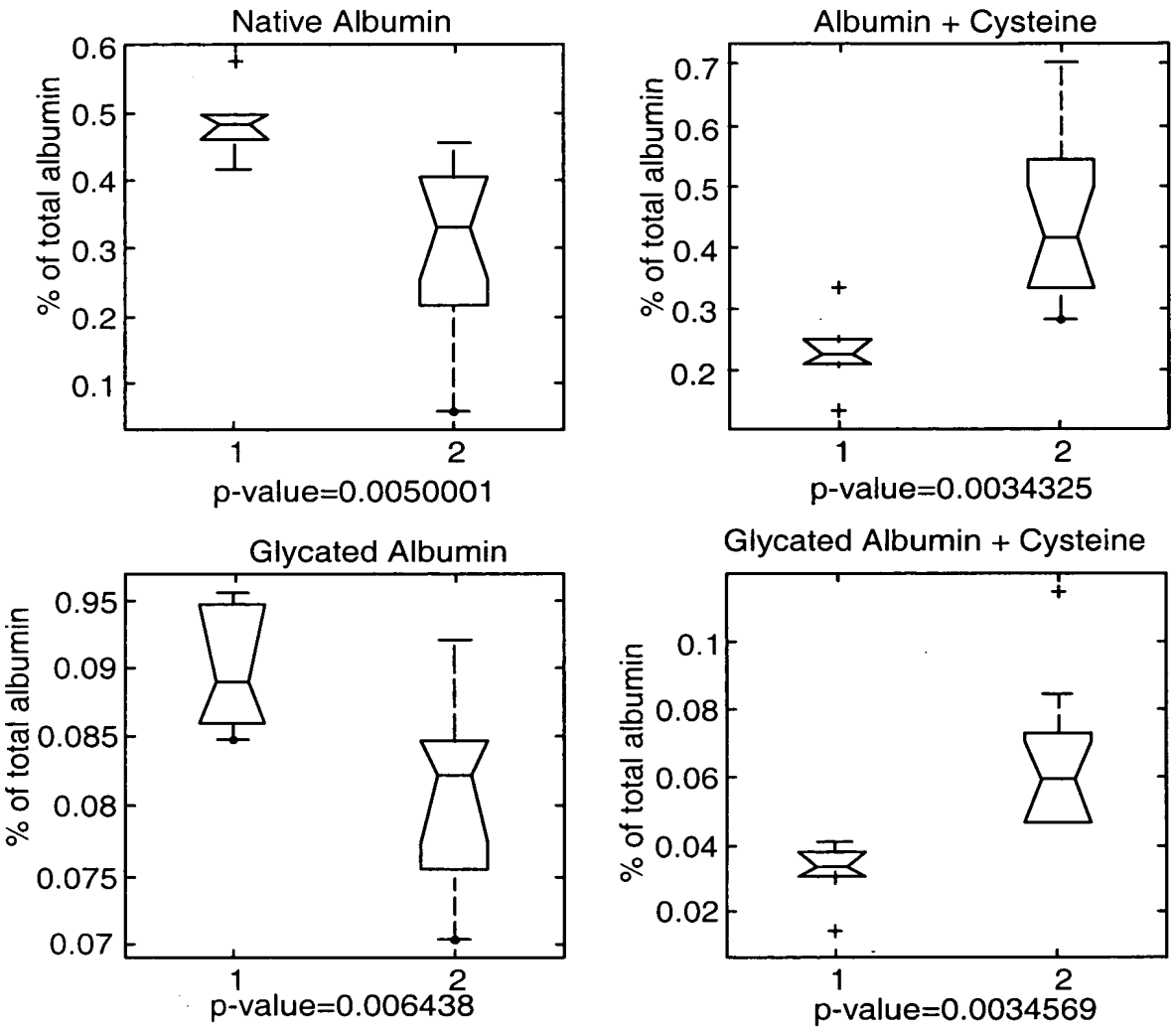

Native Albumin
% of total albumin
0.6
0.5
0.4
0.3
0.2
0.1
1
2
p-value=0.0050001
Albumin + Cysteine
% of total albumin
0.7
0.6
0.5
0.4
0.3
0.2
1
2
p-value=0.0034325
Glycated Albumin
% of total albumin
0.95
0.09
0.085
0.08
0.075
0.07
1
2
p-value=0.006438
Glycated Albumin + Cysteine
% of total albumin
0.1
0.08
0.06
0.04
0.02
1
2
p-value=0.0034569

Figure 3

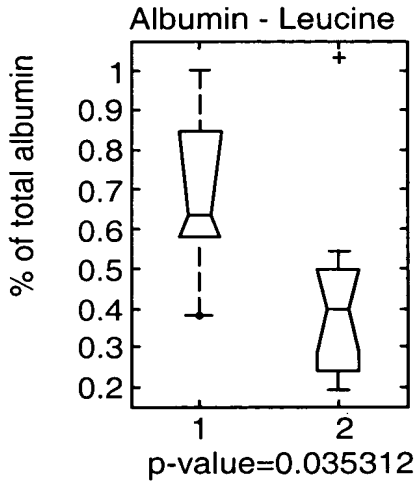


Figure 4A

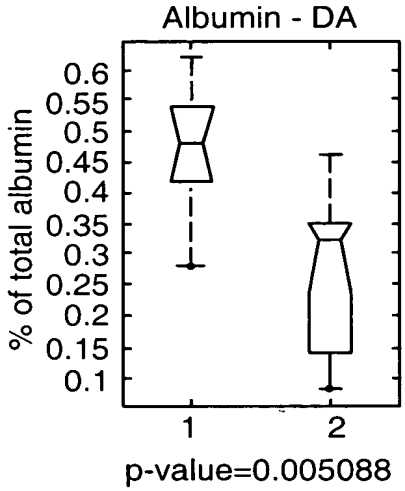


Figure 4B

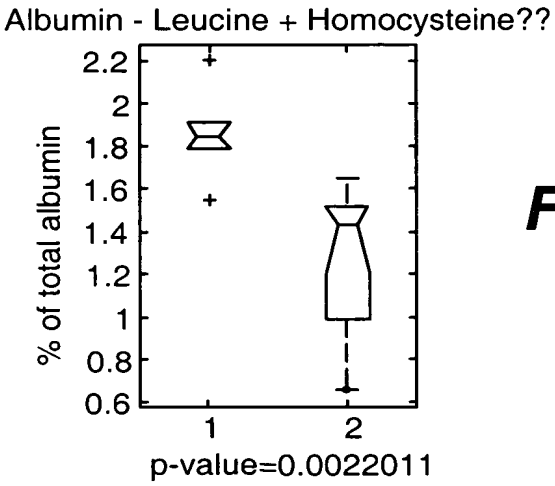


Figure 4C

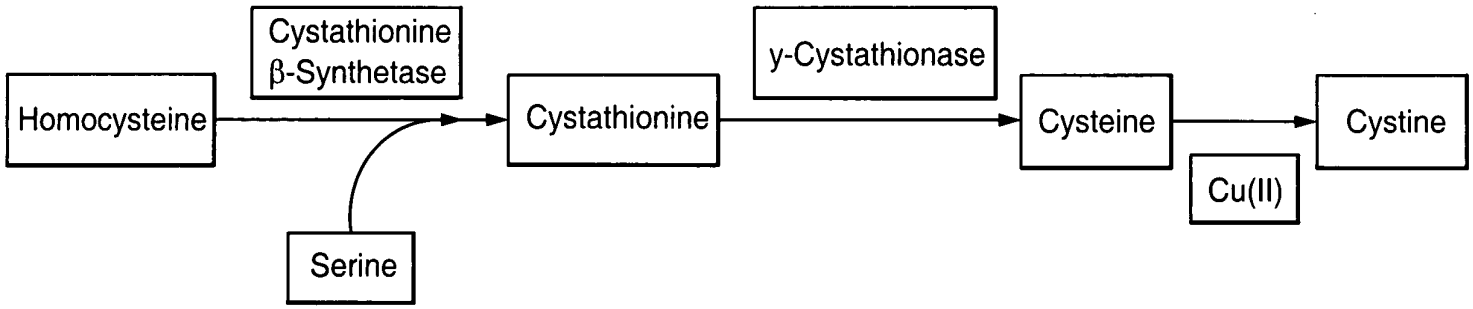
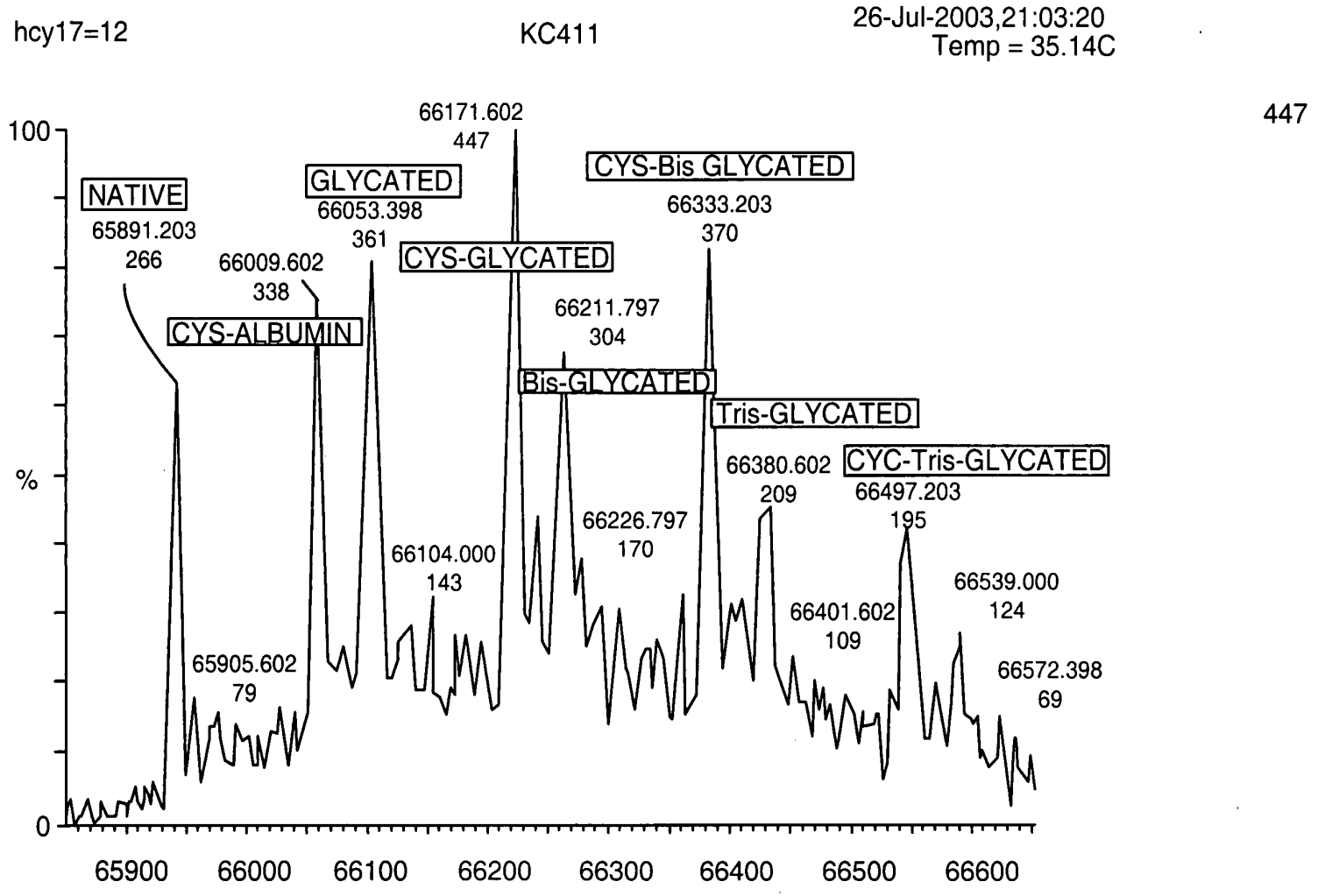

Cystathionine
β-Synthetase
y-Cystathionase
Homocysteine
Cystathionine
Cysteine
Cystine
Cu(II)
Serine

Figure 5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KC411
26-Jul-2003,21:03:20
Temp = 35.14C
447
100
%
0
NATIVE
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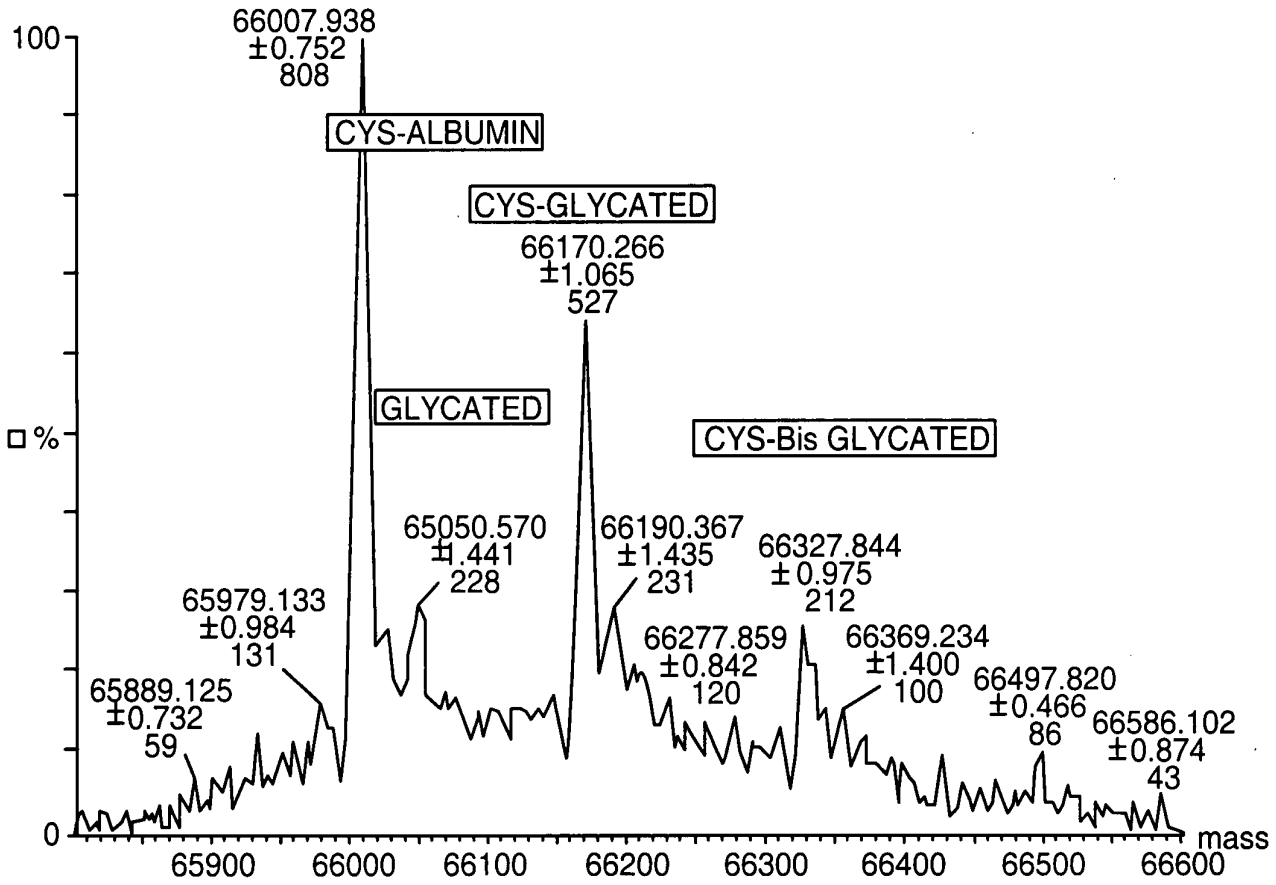
266
CYS-ALBUMIN
66009.602
338
GLYCATED
66053.398
361
66171.602
447
CYS-GLYCATED
CYS-Bis GLYCATED
66333.203
370
66211.797
304
Bis-GLYCATED
Tris-GLYCATED
66380.602
209
CYC-Tris-GLYCATED
66497.203
195
66226.797
170
66104.000
143
66539.000
124
66401.602
109
65905.602
79
66572.398
69
65900
66000
66100
66200
66300
66400
66500
66600

Figure 9A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±0.752
808
808
CYS-ALBUMIN
CYS-GLYCATED
66170.266
±1.065
527
GLYCATED
CYS-Bis GLYCATED
100
%
0
65050.570
±1.441
228
66190.367
±1.435
231
66327.844
±0.975
212
65979.133
±0.984
131
66277.859
±0.842
120
66369.234
±1.400
100
66497.820
±0.466
86
65889.125
±0.732
59
66586.102
±0.874
43
mass
65900
66000
66100
66200
66300
66400
66500
66600

Figure 9B